



Engineered Plastics

Leveraging the power of imagination™

Case Study

Project Description:

Patient Monitoring System



Customer Challenge

A medical-device OEM needed to bring a 16-piece plastic device to market within six weeks. Their long-term product needs were for low-volume production of 5,000 pieces per year over a period of 10 years.

PTI Solution

We designed and built 16 different molds using our P3 process (PTI Production Prototype). Each mold was capable of producing more than 100,000 pieces, and parts ranged from 75 to 500 tons. Several parts required secondary decorating, pad printing and texturing on the molds. With the P3 process, where prototype and production uses the same tool, the customer realized a cost savings of \$150,000 in their initial tooling spend compared to traditional tool methods not required for this low-volume project.

Project Details:

Material:	PC ABS
Tool Type:	Aluminum Hybrid, Unit Mold Inserts and Free Standing Molds
Delivery:	Six weeks
No. Tools:	16 parts/molds

Performance:

Critical Dimension:	Various
Tolerance:	+/- .002 inch
Initial Capability (CPK) :	2.623
On-Going Capability (CPK):	2.44
Parts Molded to Date:	18,000 pcs.

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